

5 I claim:

1. A precast roadway barrier section formed by recycling wet surplus concrete in cement trucks returning from a worksite, said recycling comprising progressively emptying said surplus concrete into a residual-collection mold over the course of time until the recycled concrete builds into one or more completed precast barrier sections, said residual-collection
10 mold further comprising a casting bed including a rectangular steel plate floor, two steel plate perimeter walls, a plurality of lengthwise steel internal walls, and a plurality of widthwise steel plate bulkheads, said precast roadway barrier section further comprising:
a concrete roadway barrier section molded and hardened in said casting bed and having at least one lifting/assembly system embedded therein, and an integral reinforcement structure
15 embedded throughout said concrete barrier section.

2. The precast concrete roadway barrier section according to claim 1, wherein said section further comprises at least one pattern embossed in a surface of said section.

20 3. The precast concrete roadway barrier section according to claim 1, wherein said barrier section further comprises recesses formed at each end of said barrier section.

4. The precast concrete roadway barrier section according to claim 3, wherein each of said at least one lifting/assembly system further comprises;
25 an anchoring member;
a first three-way connector detachably attached at a first end to said anchor plate;

5 a first connector rod detachably attached at a first end to a second end of said first three-way connector;

 a second connector rod detachably attached at a first end to a third end of said first three-way connector;

 a second three-way connector detachably attached at a first end to a second end of said
10 second connector rod;

 a third connector rod detachably attached at a first end to a second end of said second three-way connector; and

 a fourth connector rod detachably attached at a first end to a third end of said second three-way connector.

15

5. The precast concrete roadway barrier section according to claim 4, wherein said anchoring member is formed with Acme threads at one end.

6. The precast concrete roadway barrier section according to claim 4, wherein said first
20 and said second three-way connectors are formed with Acme threads at all three ends.

7. The precast concrete roadway barrier section according to claim 4, wherein said first, second, third, and fourth connector rods are formed with Acme threads at both ends.

25

8. The precast concrete roadway barrier section according to claim 4, wherein said anchoring member, said first and said second three-way connectors, and said first, second, third, and fourth connector rods are fabricated of recycled PVC plastic.

5

9. The precast concrete roadway barrier section according to claim 4, wherein a lifting ring is detachably attached to a second end of said fourth connector rod.

10. The precast concrete roadway barrier section according to claim 9, wherein said lifting ring is formed with Acme threads at one end.

11. The precast concrete roadway barrier section according to claim 9, wherein said lifting ring is fabricated of recycled PVC plastic.

15 12. The precast concrete roadway barrier section according to claim 4, wherein a connector ring is detachably attached to a second end of said first connector rod.

13. The precast concrete roadway barrier section according to claim 12, wherein said connector ring is formed with Acme threads at one end.

20 14. The precast concrete roadway barrier section according to claim 12, wherein said connector ring is fabricated of recycled PVC plastic.

15. The precast concrete roadway barrier section according to claim 4, wherein a connector ring is detachably attached to a second end of said third connector rod.

5 16. The precast concrete roadway barrier section according to claim 4, wherein a connector hook is detachably attached to a second end of said first connector rod.

17. The precast concrete roadway barrier section according to claim 16, wherein said connector hook is formed with Acme threads at one end.

10 18. The precast concrete roadway barrier section according to claim 16, wherein said connector hook is fabricated of recycled PVC plastic.

15 19. The precast concrete roadway barrier section according to claim 4, wherein a connector hook is detachably attached to a second end of said third connector rod.

20 20. The precast concrete roadway barrier section according to claim 4, wherein at least two of said sections, at least one lifting ring, at least one connector ring, and at least one connector hook are used to construct a continuous roadway safety barrier wall.

20 21. Structures comprising:
 two or more precast concrete roadway barrier sections formed by recycling wet surplus concrete in cement trucks returning from a worksite, said recycling comprising progressively emptying said surplus concrete into a residual-collection mold over the course of time until
25 the recycled concrete builds into one or more completed precast concrete roadway barrier sections, said residual-collection mold further comprising a casting bed including a rectangular steel plate floor, two steel plate perimeter walls, a plurality of lengthwise steel

5 internal walls, and a plurality of widthwise steel plate bulkheads, each of said one or more
first precast concrete roadway barrier sections being molded and hardened in said casting bed
and further comprising at least one lifting/assembly system embedded therein, at least one
detachable lifting ring protruding upwardly therefrom, an integral reinforcement structure
embedded throughout said barrier section, and recesses formed at each end of said barrier
10 section;

at least one connector ring detachably attached to said lifting/assembly system, each of
said connector rings being formed with Acme threads at one end and fabricated of recycled
PVC plastic; and

at least one connector hook detachably attached to said lifting/assembly system, each of
15 said connector hooks being formed with Acme threads at one end and fabricated of recycled
PVC plastic.